WORK - 1

BRUHAT BANGALORE MAHANAGARA PALIKE
BYTARAYANPURA DIVISION

Name of Work: Package-1, includes 10 works of Rs. 146.50 lakhs

2nd & FINAL BILL

DETAIL MEASUREMENT

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287532
email: tejusconsultants@gmail.com

List of Name of Works

Package-1, includes 10 works of Rs. 146.50 lakhs

a. Construction and Improvments of Tiolet in Ward No 08.
b.Providing Drinking Water Facility in Ward No. 08, Kodigehalli.
c. Providing Drinking Water Facility in Maruthinagara and Devinagara in Ward No. 08, Kodigehalli.

d.Improvements Works to Burial Ground at Kodigehalli in Ward No. 08, Kodigehalli.

e.Providing Basic Amenities and Procurement of Dustbins in Ward No.08,Kodigenahalli.

f.Repairs and Maintenance of Public Toilet in Ward No. 08, Kodigehalli.

g.Providing Modern Dust Bins in Banglore City in Ward No 8.
h.Improvements of Park in Ward No. 8 Kodigehalli.
i. Improvements to Footpath and Drains at Sahakaranagara in Ward No. 08, Kodigehalli.
j. Improvements to Roads and Drains in Ward No. 08, Kodigehalli.

Name Of work: - Construction and Improvements of Toilet in Ward No 08

008-17-000062

2nd & final

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Code :- 008-17-000062

Name of Agency :- (K.BABU RAJU) M/s. K.BR. Infotech Limited.

Bill No :- Second and Final Bill

Name Of work : - Construction and Improvments of Toilet in Ward No 08

Measurements recorded on 10/08/2020

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
101	KSRRB M200-14.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. ii) Dismantling brick/Tile work B. In cement mortar. MORTH Specification No. 202									
	Sahakaranagar									
	Dismantling of Existing Compound Wall		1	30.00			1.90	0.20	11.40	/
									11.40	/ Cum

Contractor

Consultant

Assistant Engineer

Verified

Assistant Executive Engineer

Assistant Executive Engineer
Yelahanka Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Name Of work : - Construction and Improvments of Toilet in Ward No 08

Measurements recorded on 03/09/2020

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
114	KSRB 5-11 : Providing and constructing load bearing wall with cement concrete cavities blocks (hollow blocks) of size 400x150x200 mm having block density not less than 1800 kg/m3 and having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4(page no.25)									
	Sahakarnagar									
	Flagging Coarse For Drain									
	20th Cross Road									
	LHS									
	0.00-11.00	L/S	2	11.00				0.20	4.40	
	15.50-27.00	L/S	2	11.50				0.20	4.60	
	52.00-64.00	L/S	2	12.00				0.20	4.80	
	91.00-102.00	L/S	2	11.00				0.20	4.40	
	174.00-210.00	L/S	2	36.00				0.20	14.40	
	260.00-272.00	L/S	2	12.00				0.20	4.80	
	285.00-302.00	L/S	2	17.00				0.20	6.80	
	RHS									
	27.00-38.00	R/S	2	11.00				0.20	4.40	
	41.00-54.00	R/S	2	13.00				0.20	5.20	
	74.00-106.00	R/S	2	32.00				0.20	12.80	
	136.40-165.00	R/S	2	28.60				0.20	11.44	
	198.00-223.00	R/S	2	25.00				0.20	10.00	
							Total Quantity		**88.04**	
							Quantity Lmited to		**69.19**	**Sq-m**

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.

Name Of work : - Construction and Improvments of Toilet in Ward No 08										
Measurements recorded on 05/09/2020										
BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
115	KSRB15-3.4 : Providing 15mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(page no.113,item no.15.12)									
	Internal plastering									
	Toilet 1 in sahakarnagar									
	Walls	1	2	7.00				2.70	37.8	/
		1	2	7.00				2.70	37.8	/
		1	2	7.30				2.70	39.42	/
	Inner Walls									
			2	6.50				2.10	27.3	/
			2	2.30				2.10	9.66	/
			2	2.30				2.10	9.66	/
	Deduction for opening									
	Door D2	1	-6	0.9				1.85	-9.99	/
	Ventilatars	1	-1	0.6				0.60	-0.36	/
							Total Quantity		**151.29**	/ **Sq-m**

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.

Name Of work : - Construction and Improvments of Toilet in Ward No 08										
Measurements recorded on 05/09/2020										
BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
116	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.No. 113, I.No. 15.21 of PWD SR 2015-16)									
	Sahakaranagar									
	Ceiling		1	3.00			2.30		6.90	
								Total Quantity	**6.90**	
								Quantity Limited to	**6.89**	**Sq-m**

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - **Construction and Improvments of Toilet in Ward No 08**

Measurements recorded on 07/09/2020

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
117	KSRB 15.10.2 Providing white washing for every one additional coat with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications.									
	Same as internal plastering qty									
			Quantity Vide Item No 115						151.29	
								Total Quantity	151.29	Sq-m

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer

Name Of work : - Construction and Improvments of Toilet in Ward No 08										
Measurements recorded on 07/09/2020										
BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
8	KSRB 15.10.4 Providing white washing to ceiling and / or sloping roof surface with additional one coat with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications.(page no.115,item no.15.41)									
	same as cealing qty		Quantity Vide Item No 116						6.89	/
								Total Quantity	6.89	/
								Quantity Limited to	6.88	Sq-m

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
B.B.M.P.

me Of work : - Construction and Improvments of Toilet in Ward No 08										
asurements recorded on 08/09/2020										
BOQ em No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
121	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including priming,including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer. (P. No. 117, I.No. 15.51.2 .2&3).for cealing									
	same as cealing plastering		Quantity Vide Item No 116						6.89	/
								Total Quantity	**6.89**	/
								Total Quantity	**6.88**	**Sq-m**

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

e Of work : - Construction and Improvments of Toilet in Ward No 08										
surements recorded on 04/09/2020										
OQ m No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
22	KSRB 14.14-5: Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. - for Ceramic Tiles 400 x 400mm on a bed of 20mm thick (Page No : 106, item No :14.36.3)									
	Sahakaranagar Tiolet									
	Gents Tiolet									
			1	7.00				1.50	10.50	
			1	5.00				1.50	7.50	
			1	3.90				1.50	5.85	
							Total Quantity		23.85	Sqm

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Of work : - Construction and Improvments of Toilet in Ward No 08										
urements recorded on 09/09/2020										
Q No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
29	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(For 1000 litre capacity) Specification No.KBS 13.22(P.no.96, I.no.13.86.2 of PWD SR 2016-17)									
	Sahakaranagar and Tatanagar Tiolet									
		1.00	2.00						2.00	
								Total Quantity	**2.00**	**each**

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

e Of work : - Construction and Improvments of Toilet in Ward No 08										
surements recorded on 05/09/2020										
OQ m No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
131	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia. (P.No. 88, I.No. 12.111 of PWD SR 2016-17)									
	Sahakaranagar and Tatanagar Tiolet									
			10						10.00	
			11						11.00	
			9						9.00	
								Total Quantity	**30.00**	**m**

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer

me Of work : - Construction and Improvments of Toilet in Ward No 08										
asurements recorded on 05/09/2020										
OQ m No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
132	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 10cms x 7.5cms (P.no.88, I.no.12.113.1 of PWD SR 2016-17)									
	Sahakaranagar and Tatanagar Tiolet									
			8						8.00	
			12						12.00	
			10						10.00	
								Total Quantity	**30.00**	**each**

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.

ne Of work : - Construction and Improvments of Toilet in Ward No 08										
asurements recorded on 07/09/2020										
OQ m No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
136	Constructing brick masonry inspection chamber 450x450mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 450x450mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 450x450mm (P.No. 73/ I.No.11.50.2 of PWD SR 2016-17)									
	Sahakaranagar and Tatanagar Tiolet									
			2						2.00	
								Total Quantity	**2.00**	**NOS**

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

ne Of work : - Construction and Improvments of Toilet in Ward No 08										
asurements recorded on 12/09/2020										
OQ m No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
38	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. (P.No. 77, I.No.12.5 of PWD SR 2015-16).(P.No.77 I.No.12.2 of CSR 2016-17)									
	Sahakaranagar and Tatanagar Tiolet									
			8						8.00	
			5						5.00	
			6						6.00	
									19.00	Each

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

e Of work : - Construction and Improvments of Toilet in Ward No 08										
surements recorded on 12/09/2020										
OQ m No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
39	KSRB 11-7.4 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm in the range of four with 10 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11(P.no.77, I.no.12.2 of PWD SR 2015-16)									
	Sahakaranagar and Tatanagar Tiolet									
			5						5.00	
								Total Quantity	**5.00**	**each**

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P..

e Of work : - Construction and Improvments of Toilet in Ward No 08										
surements recorded on 12/09/2020										
OQ n No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
40	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11(P.no.80, I.no.12.23 of CSR 2016-17)									
	Sahakaranagar		4						4.00	
	Tatanagar		2						2.00	
								Total Quantity	6.00	each

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Construction and Improvments of Toilet in Ward No 08										
Measurements recorded on 11/09/2020										
SOQ Item No	**Description / Chainage**	**Side**	**Nos**	**L**	**B1**	**B2**	**Avg width**	**Depth**	**Quantity**	**Remarks**
141	Fabricating, supplying and erecting M.S. TubularTruss of span upto 10m. The bottom and top member is provided with 50x50x6mm double equal angles, welded back to back and in between top and bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided. All the members are welded together with 6mm gusset plate as per Drawing. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all themembers including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, etc., complete as per specification. (Page No. 40 Item No. 7.29 of CSR 2015-16)									
	main members 100*45*3		4		4.80	8.22			32.88	
	purlins 45*45*3		5		4.30	3.88			19.40	
								Total Quantity	52.28	each

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,

e Of work : - Construction and Improvments of Toilet in Ward No 08										
surements recorded on 11/09/2020										
OQ n No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
142	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.									
	toilet 2 roofing		1	4.80			4.30		20.64	
									20.64	sqm

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore